



101141-21 Project.ST25.txt  
SEQUENCE LISTING

<110> Chan, Raquel

<120> Transcription factor gene induced by water deficit conditions ...

<130> 101141-21

<140> 10/520,033

<141> 2000-05-02

<160> 22

<170> PatentIn version 3.3

<210> 1

<211> 774

<212> DNA

<213> Helianthus annuus

<400> 1  
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tctcttcaac aagtacccac aacagaaaca accaccagga agaaccgaaa cgaggggcgg 120  
aaccgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga 180  
cccagttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg 240  
gcgatatggc tccagaacaa acgcgcgcga tcaaagtgcg ggcagattga gcaagagtat 300  
aacgcgctaa agcataacta cgagacgctt gcgtctaat ccgagtctct aaagaaagag 360  
aatcaggccc tactcaatca ggtatggttt ccaaacttaca atgttgcatt caactattta 420  
agtagttttt aatttttgtt acaataaaga ttgacaaatg ttgtttgata attgattaac 480  
agttggaggt gctgagaaat gtagcagaaa agcatcaaga gaaaactagt agtagtggca 540  
gcggtaaga atcggatgat cggttacga actctccggc cggtatgttt ggtcaagaaa 600  
tgaatgttcc gtttgcac ggtttgcgt actttgaaga agggaaacagt ttgttggaga 660  
ttgaagaaca actgccagac cctcaaaagt ggtggagtt ctaaagagta aagaaggatg 720  
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<210> 2

<211> 673

<212> DNA

<213> Helianthus annuum

<400> 2  
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aaccgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga 180  
cccagttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg 240  
gcgatatggc tccagaacaa acgcgcgcga tcaaagtgcg ggcagattga gcaagagtat 300

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aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtctct aaagaaaagag	360
aatcaggccc tactcaatca gttggaggtg ctgagaaatg tagcagaaaa gcatcaagag	420
aaaactagta gtatggcag cggtaagaa tcggatgatc gtttacgaa ctctccggac	480
gttatgttg gtcaagaaat gaatgttccg ttttgcacg gtttgcgt a ctttgaagaa	540
ggaaacagtt tggtggagat tgaagaacaa ctgccagacc ctcaaaagtg gtggagttc	600
taaagagtaa agaaggatgt agaagtagta gagtaaaaac taaaacatac cagatagttg	660
gtttacactt tgt	673

<210> 3  
<211> 1221  
<212> DNA  
<213> Helianthus annuus

<220>  
<221> promotor  
<222> (1)..(1221)  
<223> Large allele

<400> 3 gatccaattt gaccacctgg cacatcgat cttatctttt ttgtcgtttc caacacacca	60
caacacacct acaaacgtgt caattcacac ttcaccaatt tcatttcattt ttagtcaatc	120
atattaaaag tagtagcccc caccacattt tgttacctac cattttccac tttaataatc	180
acccacgcta tgtccacttg tactttgtt tgacacacaac tcttccata aaatatcaaa	240
ccaaattttt tttagtggaa aacaaattcc ccaaataaaaa tactaacgaa attcatcgca	300
tcagaataca ctcatctctg aacagtggcg aagcttgacg ttttcgacgg ggggtcgaa	360
aacgtatgtt cccgaaattt ctatagaatc ggggggtcga aaacgtatata acccaaattt	420
tctatacgaa aactacatata atAACACTAC tgagaaaaaa gttcgggggt tcgggcgccc	480
ctccggccc cttcaaagct tcgccaatgt ctctgaaccg aaaaaaccc tcactcgatct	540
actagccaaat gaatcctcac cagggaaacc ctcactcgatcttactggact attggcgctt	600
ccaaatggac tacttgcgaa attcaccaca tcgggataca ctcgtctact gcggtgaggt	660
aaaacccgct tggctcaagg atcgaactag cgattgctgc ctactcgctt aatctccat	720
catcaacagg tgccgccc gaa aaaaaatgct gggggcgaaa gttgaaccta ggtccagtga	780
cgcacccatg aatTTTTTCTAGGGATGC gaacgagtgg tttaaccata ctttaagag	840
gtgcgatcgaa aatTTTACCTATAAAATAC actaaaaaaatgcttccaaagggtt ccacccaccc	900
cttaacctaa gtccgccttt gtctggatca cgtgaaacat caggtctctc ccttaccagt	960
ccagctacga ctcattgaca aaatatcaaa accatatgtat tttgagttt atctcaaccg	1020
aaagtgacat catgacagag aatcgacata accaaaacgt gtaaacgtac aactcaccat	1080

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tgcgttgaaa aggacaaaac aggtaggatt cttgtcaa at tcaacgcgta cacctgtgct	1140
tcatctaa ac cccatactt aagaacctt ataaagacca ctcactat atacacat at	1200
ataatatcac ttatcaa accc c	1221
<210> 4	
<211> 28	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Designed oligonucleotide based on promotor and having Hind III site	
<400> 4	
gcgaagctt g atgcgaacga gtgg tta	28
<210> 5	
<211> 28	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Designed oligonucleotide based on the promoter and having Sal I site	
<400> 5	
gcgg tcgaca cctggcacat cgtatctt	28
<210> 6	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Designed oligonucleotide based on the promotor and having Bam HI site	
<400> 6	
cgcggatccg agggttgat aagt gat	27
<210> 7	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Designed oligonucleotide based on the promotor and having Hind III site	
<400> 7	
cccaagctt aacctaa gtc gcctt g	27
<210> 8	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	

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<223> Designed oligonucleotide based on the 5' promotor

<400> 8  
ggcaagctta tctcaaccga aagtgac

27

<210> 9  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Designed loigonucleotide based on the 5' promotor

<400> 9  
atttcgcaag tagtccatt

19

<210> 10  
<211> 1015  
<212> DNA  
<213> Helianthus annuum

<400> 10  
gatccaattg gaccacctgg cacatcgat cttatctctt ttgtcgtttc caacacacca 60  
caacacacacct acaaacgtgt caattcacac ttcaccaatt tcatttcctt ttagtcaatc 120  
atattaaaag tagtagcccc cacccccatt tgttacctac catttcccac ttaataatc 180  
acccacgcta tgtccacttg tactttgtt tgacacacaac tcttccata aaatatcaaa 240  
ccaaattttt ttaatggaa aacaaatact tcaaatgcac tattggtaa attcaccaca 300  
tcagaataca cccgtctcta ctcatctact ggccaacgaa tcttcacggg ggaaaccctc 360  
actcgctcac tgggactact ggcgctcaa aatggactac tgacaaaatt caccacatcg 420  
ggatacactt gtctactgcf gtgaggtaaa atccgcccct cagctcaatg atcgaactag 480  
cgatcgccac ccactcacct tgtctccat catcaccagg tgccgccaaa aaaaaatgtt 540  
ggggggcgaaa attgaaccta ggtccagtgg cgcacccatg aattttttt ctagggatgc 600  
gaacgagtga ttttaaccata ctttaagag gtgcgatcg aaattttacc tataaaatat 660  
actaaaaaaaaa tttcaagggt ccgcccaccc accccttaac ctaagtccgc ctctgcctgg 720  
atcacgtgaa acatcaggtc tctctttac cagttcacct acaactcatt gacaaaatat 780  
caaaaccata tgattttgag ttttatctca accgaaagtg acatcatgac agagaatcga 840  
cataaccaaa acgtgtaaac gtacaactca ccattgcgtt gaaaaggaca aaacaggtag 900  
gattcttgc aaattcaacg cgtacacctg tgcttcatct aaacccata ctttaagaac 960  
ctttataaaag accactcact atatatacac atatataata tcacttatca aaccc 1015

<210> 11  
<211> 28  
<212> DNA  
<213> Artificial Sequence

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<220>  
<223> Designed oligonucleotide that matches nucleotides 81-100 of the Hahb-4 cDNA sequence and having Bam HI site

<400> 11  
ggcggatcca acagaaaacaa ccaccagg

28

<210> 12  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Designed oligonucleotide for cloning 5' cDNA and having Bam HI site

<400> 12  
ggcggatccc ctgggtggttg tttctgttg

29

<210> 13  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 13  
gaggactcga gctcaagttt tttttttttt tttt

34

<210> 14  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 14  
gaggactcga gctcaagc

18

<210> 15  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Designed oligonucleotide based on the promotor and having Eco RI site

<400> 15  
gccgaattca gattgagcaa gagtataac

29

<210> 16  
<211> 19  
<212> DNA  
<213> Artificial Sequence

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<220>  
<223> Designed oligonucleotide based on the promotor  
  
<400> 16  
acctttataaa agaccactc 19  
  
<210> 17  
<211> 19  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Designed oligonucleotide based on the promotor  
  
<400> 17  
acgcaatggt gagttgtac 19  
  
<210> 18  
<211> 24  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Oligonucleotide to DNA-binding assays  
  
<400> 18  
aattcagatc tcaataattg agag 24  
  
<210> 19  
<211> 24  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Oligonucleotide to DNA-binding assays  
  
<400> 19  
gatcctctca attatttgaga tctg 24  
  
<210> 20  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Oligonucleotide having Bam HI site  
  
<400> 20  
gcgggatcca ccatgtctct tcaacaagta 30  
  
<210> 21  
<211> 30  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Oligonucleotide having Sac I site

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<400> 21		
gccgagctct tagaactcca accacttttg		30
<210> 22		
<211> 27		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Oligonucleotide having Bam HI site		
<400> 22		
ggcggatccg tctcccagtt gttcttc		27